

### **ABSTRACT**

A 3D object modeling system and method system and method captures a 2D representation of the object to be modeled and breaks the 2D image into its geometric elements. The 3D stereoscopic image is then fitted to the geometric elements generated from the 2D image to generate the final model. The 3D stereoscopic image may be compared with the geometric elements to detect distortions in the object, allowing the distortions to be corrected in the final model to ensure that the model accurately depicts the original object.

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